

Weed dynamics and growth parameters of fenugreek seed crop as influenced by various irrigation levels and weed control measures

P.K. CHOVIATIA*, J.J. VAGHANI, N.M. THESIYA AND K.V. JADAV

Department of Agronomy, College of Agriculture, Junagadh Agriculture University,
JUNAGADH (GUJARAT) INDIA

ABSTRACT

An experiment was conducted during the winter season of the year 2006-07 and 2007-08 to study the effect of irrigation levels and weed control measures on the growth and yield of fenugreek. There was a significant effect of irrigation levels and weed control measures on weed density, weed dry weight and growth parameters. Significantly the maximum plant height and plant spread was observed when crop was irrigated five times, *i.e.* seedling, branching, flowering, pod formation and pod development stages. Various irrigation levels could not exert a significant influence on attaining 50% flowering stage. Weed density of monocot, dicot and sedges as well as total weeds dry weight was significantly lowest under two hand weeding *i.e.* at 20 and 45 DAS, but was at par with the pre-emergence application of pendimethalin 0.75 kg a.i. ha⁻¹.

Key words : Fenugreek, Monocot, Dicot, Sedges weed, Weed flora, Pendimethalin, Fluchloralin, Metribuzui

* Author for correspondence Present Address : Agricultural Research Station, Junagadh Agricultural University, AMRELI (GUJARAT) INDIA